MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**RODENT AND PEST CONTROL**

DET:MS 1 of 5 APPR:DMG:SCK:10-07-21

**a. Description.** This work consists of surveying and monitoring rodent activity and controlling any infestation or outbreak of rodents within the construction influence area for the duration of the project. This work includes furnishing, installing, maintaining, and monitoring of devices, and associated pest removal and disposal, device replacement, and any incidentals required to survey, monitor, and control pests as directed by the Engineer.

**b. Materials.** Furnish materials that are registered with the appropriate State of Michigan environmental departments and that comply with the applicable health codes for intended usage. Materials classified as Toxicity Category I, carcinogenic to humans by the United States Environmental Protection Agency or classified as a developmental toxin by the State of Michigan must not be used. Provide verification that materials are:

1. Not restricted by the MDARD using the MDARD’s Restricted Use Pesticide (RUP) List, available at:

<https://www.michigan.gov/documents/mdard/Michigan_Restricted_Use_Pesticide_List_3-7-19_648646_7.pdf>

2. On the Michigan’s Pesticide Registration Database, available at:

[https://www.michigan.gov/mdard/0,4610,7-125-1569\_16988\_35290-86332--,00.html](https://www.michigan.gov/mdard/0%2C4610%2C7-125-1569_16988_35290-86332--%2C00.html)

Use rodenticide weatherproof (wax based) bait boxes with multiple dose anticoagulants such as Chlorophacinone, or single feed anticoagulants such as Brodifacoum (Weatherblok XT, Final All-Weather Blox), Bromadiolone (Contrac Blox), or an approved equivalent, registered with the State of Michigan and not prohibited by MDARD’s RUP list. The use of loose rodenticide meal or rodenticide pellet bait is prohibited.

Use tamper-proof bait station boxes designed to exclude other mammals with poisoned bait to attract rats.

Use live traps with the proper dimensions for trapping rats and mice and not to be used with poisoned bait.

**c. Submittals.** Submit the manufacturer’s installation instructions for all materials required for rodent and pest control work and product data prior to construction including illustrations, catalog data, pesticide labels, product characteristics, typical use, performance and limitation criteria of all rodent and pest control materials required for review. All pesticides and rodenticide submittals are to be accompanied by a printout from the Michigan’s Pesticide Registration Database showing that the specific brand of pesticide is registered with the State of Michigan.

**d. Construction.** Place, monitor, and maintain all rodent bait boxes, bait stations, live traps, and all other pest control devices in compliance with the manufacturer’s recommendations.

1. General. The Contractor’s construction activity is expected to disturb an established rodent and/or pest population that may exist within the project limits, possibly causing their dispersion. Take appropriate action to eliminate and/or control these populations within the construction influence area as directed by the Engineer.

Correct any residual rodent population within the construction influence area and on Contractor-constructed temporary facilities. Correct unsanitary conditions, such as uncollected garbage or debris resulting from the Contractor’s activities which will provide food and shelter to the resident rodent population, immediately after notification of such condition by the Engineer. Non-compliance will result in non-payment for any additional application of rodenticide or insecticide needed to control resultant infestations.

2. Personnel. Employ two independent licensed exterminators: one to engage in survey and monitoring work to establish the level of infestation of rodents and insects and provide recommendations for specific Integrated Pest Management (IPM) actions, and one to execute the rodent and pest control work to control infestations or outbreaks. Ensure all pest control personnel employed by each exterminator company are licensed by the State of Michigan. Submit the names and license credentials of the two exterminator companies to the Engineer for approval prior to starting work.

3. Survey and Monitoring Work.

A. Prior to Construction. Execute (by designated survey and monitoring exterminator) a survey of the project limits and estimate level of rodent infestation and pest population within the construction influence area. Open and survey utility manholes (sewer, telephone, electrical, etc.) and catch basins to the satisfaction of the Engineer. Maintain and submit all survey records as prescribed in “Record and Reports” in this special provision for review.

B. During Construction. Monitor the rodent activity through trapping (snap, glue, or live traps), fecal count methods, and inspect the condition of all installed baits every week during construction activity or as otherwise directed by the Engineer. Monitoring activities also includes Contractor-constructed temporary facilities or areas used to store materials during construction. Maintain and submit all survey records as described in “Record and Reports” in this special provision for review.

4. Rodent Control Work.

A. Wetlands, Woodlands, and Areas Within 75 feet of a Stream. In wetlands, woodlands, and areas adjacent to a stream take special precautions to protect water quality and ensure safety of other wildlife. To prevent poisoned bait from entering stream areas, no poisoned bait is permitted within 75 feet of either streambank. Use live traps within 75 foot buffer zones in wetland and woodland areas.

B. During Construction. Control the rodent activity through trapping (snap, glue, or live traps), fecal count methods, and inspect the conditions of all installed baits every week during construction activity or as otherwise directed by the Engineer. Controlling activities also includes Contractor-constructed temporary facilities or areas used to store materials during construction. Maintain all monitoring records and submit them for review.

5. Staging of Rodent Control Work.

A. Stage 1. Propose to the Engineer the placement of live traps and/or rodenticide bait at least 1 month prior to construction at locations such as burrows, utility manholes (sewer, electrical, telephone, etc.) and catch basins that are accessible to pets, humans, and other non-target species, particularly wildlife (e.g. birds) in the construction influence area. When directed by the Engineer, locations of initial bait placement and quantities of bait are determined by the survey and monitoring exterminator’s written report of their survey and monitoring results, and/or as otherwise directed by the Engineer.

B. Stage 2. During Construction. Bait and rebait boxes and collect and replace live traps at infested sites as determined by the survey and monitoring exterminator’s report. Rates and quantities are determined by the written monitoring reports submitted weekly or as directed by the Engineer.

Bait may be placed in dry manholes without a tamper-proof bait station box if the manhole configuration does not permit the use of a bait station box. Use a bait box if a sanitary sewer manhole has a concrete invert platform of sufficient size. Place string bait in a manhole outside of a tamper-proof box on a stainless-steel wire and secure to the manhole structure. No additional payment is included for the wire or securing and is included in the Baiting of Rodent Bait Stations pay item. Rodent control personnel entering manholes must comply with the confined space requirements required by the *Occupational Safety and Health Administration 29 CFR, Subpart AA, Confined Spaces in Construction*.

Use tamper-proof bait station boxes with rodenticide in all other cases.

The baiting exterminator is responsible for collecting and disposing of all trapped and poisoned rodents found in live traps and tamper-proof bait stations. Release and/or relocate all non-target species captured in live traps within 24 hours after discovery or when notified by the Engineer. Post and maintain signs announcing baiting of each location at least 24 hours prior to the application of any pesticide or rodenticide. Signs must meet local signing and notification guidelines.

Collect and dispose of any visible rodent remains found on streets or sidewalks within the project limits. Collect and place any visible remains into double plastic bags with no more than five carcasses in each bag. Use a minimum of three mils thick, black plastic with a note taped on indicating the contents (e.g. dead rat) and dispose of as required by state and/or local sanitation guidelines.

It is anticipated that public complaints will be addressed to the Engineer. Take appropriate IPM actions when directed by the Engineer, such as baiting, trapping, proofing, etc. to remedy the source of the complaint within the next 6 hours of normal working time, which is defined herein for the purpose of this section, as 7:00 a.m. to 6:00 p.m. Monday through Saturday.

Bait infected sites (e.g. sewers) at least twice each month with insecticides, or as directed by the Engineer in consultation with the exterminator monitoring the work and applicable Pest Control Departments.

6. Education and Training.

A. Post notices advising workers, employees, and residents to notify the Engineer to report rodent and pest infestations. Provide and distribute literature pertaining to the IPM techniques of rodent control to affected businesses and superintendents of nearby residential buildings to ensure their participation in maintaining their establishment free of unsanitary conditions, harborage removal, and rodent proofing.

B. Furnish copies or sample labels for each pesticide, antidote information, and Material Safety Data Sheets for each chemical used.

7. Record and Reports.

A. General.

(1) Assign and list an identifying number to each manhole, catch basin, and other locations where bait and/or live trap placement and/or pest control work is proposed by the survey and monitoring exterminator. Provide the list of locations and corresponding reference numbers along with a drawing showing locations, as a reference for exterminator(s) performing the work, to indicate locations of bait placement, pest control work, and rodent and pest activity (droppings, bait consumed, dead rodents, etc.).

(2) Develop and maintain a record of all rodent infestation surveys conducted. Submit a copy of all survey and monitoring reports to the Engineer weekly, prior to payment.

B. Survey and Monitoring Work.

(1) Prior to Construction. Submit a written survey report including proposed IPM procedures including specific materials, quantities, locations, methods, and time schedule for implementation of the extermination work to the Engineer for approval. A survey with drawings (provided by the Contractor) marked with locations indicating signs of rodent infestation and pest activity discovered during the execution of the survey noting the rodent and pest control work is necessary and must be included in the written report.

(2) During Construction. Submit to the Engineer a weekly written monitoring report identifying all locations and conditions of installed bait and/or other rodent control work based on the monitoring results. This includes any other recommended IPM techniques (such as baiting, trapping, proofing, etc.) proposed for rodent and pest control.

8. Nonconformance. The Engineer will correct the adverse conditions using “outside services” if the Contractor fails to perform as directed to control the rodent population at any location within the construction project limits. The cost of the corrective work will be deducted from any monies due to the Contractor. The deducted cost of this work will be in addition to the non-payment for rodent and pest control.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

**Pay Item Pay Unit**

Rodent Infestation Survey and Monitoring Hourly

Rodent Bait Stations Each

Baiting of Rodent Bait Stations Each

1. **Rodent Infestation Survey and Monitoring** includes providing all required maintenance of traffic equipment to perform the survey, performing a rodent infestation survey, monitoring the site each week for rodent activity, and disposal of visible rodent remains as required by this special provision.

The number of hours spent on the rodent infestation survey and monitoring will be agreed upon with the Engineer on a weekly basis for payment. If the Contractor fails to submit or agree with the Engineer on time spent, the Engineer will determine a reasonable amount of time using the submitted reports and the time the Contractor spends on site performing the work.

2. **Rodent Bait Stations** includes furnishing, installing or reinstalling bait stations, removal of bait stations upon project completion, insurance, and other incidentals, including but not limited to providing all required maintenance of traffic equipment to control the rodent population found within the construction projects limits, as required by this special provision and as directed of the Engineer.

The initial baiting and subsequent rebaiting as required, will be paid for as Baiting of Rodent Bait Stations.

3. **Baiting of Rodent Bait Stations** includes baiting and rebaiting to replenish consumed or decomposed bait within the construction influence area, and for the baiting and rebaiting of the tamper-proof rodent bait station boxes located in utility manholes, catch basins, or other locations approved by the Engineer.